



Figure 2a

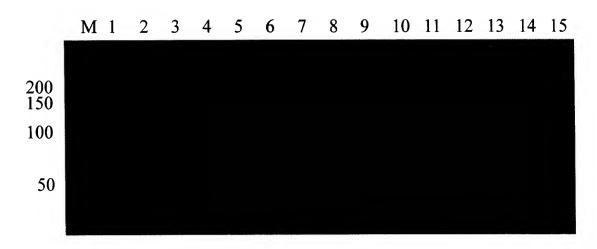
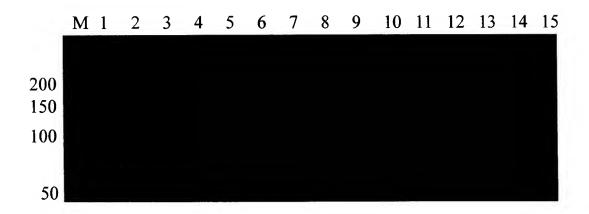
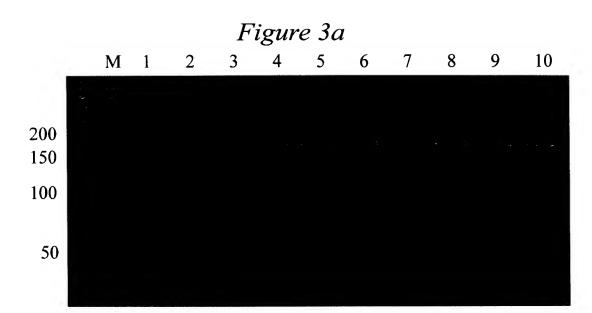


Figure 2b









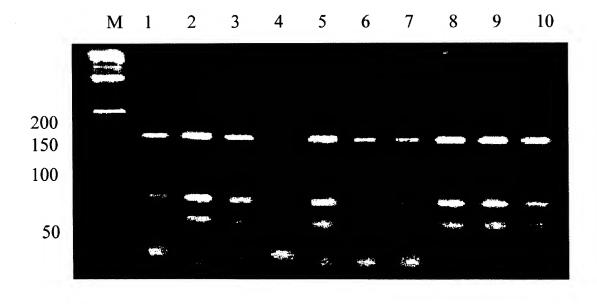




Figure 3c

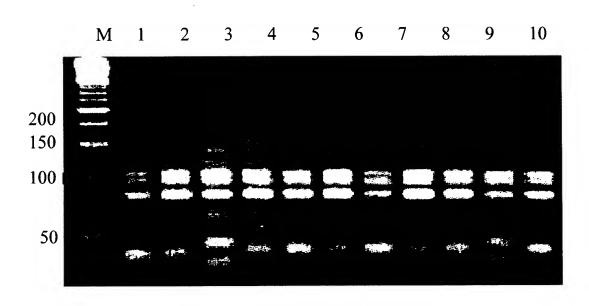




Figure 4

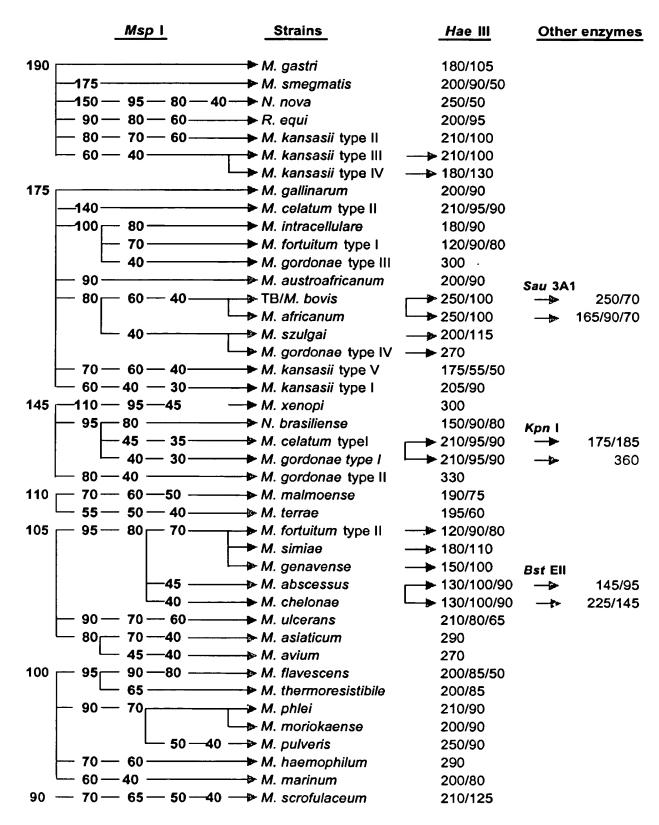
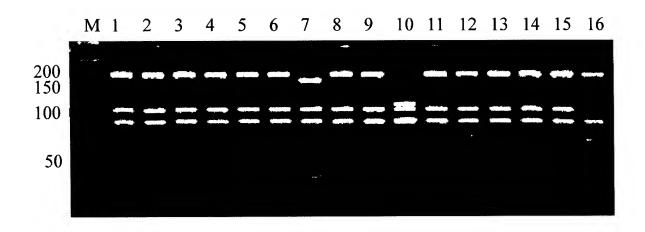




Figure 5



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	1 10	92	30	<b>8</b>	<b>윤</b>	09	2	98	욹.	160	116
M.gordonaelly TCARGGGGRAGCGC-TACGACCTGGCCGGGCGCTACGRGGTCARGGTCARGAGGTGGGCTGGGTGTGTGTGTGTGTGGTGGGTGGGTGGTGTGTGTGTG	TCARGEGGGAGE	CARGERGRAGECE-TACGACTES	GCCCGTGTCG	CCCCTRCRRC	ETCHRCARC ETCHRCARC	*gordonaely TCARGGGGRAGGG-TACGCCTGGCCCGTGTGGGCGCTTCARGGGCTCARCAGGGCTGGCTGGCTGTGTGT ********************	CATGI	-CGGCGATCEGATCBC		-C-RECTCGAC	-GCTGACCGRRG
M.gordonaeIII	TCHAGGGGGGGC	GC-TRCGRCCTG	GCCC6TGTCGL	CCGCTACARE	SETCHREPRE	CORREGERABECCO - INCORCE DESCENDE MANERON INCOMENTAL EMISSION DE CONTRA PARTICION DE LA CONTRA PARTICION DE CONTRA PER CONTRA PARTICION DE CONTRA	CHCGT	-CGGCGATCCGATCAC		C-88CYCCHC	-GCTGRCCGRGG
H.gordonaeII	TCARGERGARGE	TCARGERGARGCGC-TACGRCCTGG	GCCCGGGTGG	CCGC TRCRRC	SETCHRCARC	CCCGGGTGGGCCGCTRCRRGGTCRRCRRGRRGCTCTGGTCTGRRCGT-	ARCGT-	CGGCGRGCCGATCAC	Ī	C-AECTCBAC	-GCTGACCGAGG
M. avien		TCARGGRGRAGCGC+TRCGRCCTGG		CCECTRCAR	STCARCRAC	COCGGGTGGGCCGCTRCAAGGTCAACGAAAGCTCGGCCTGCACGC CTCGCGTGGCGCGCTCAAGGGCGGGGGGGGCTCGGCCTGGGGCA		-CGETGRGCCGRTCRC	F I	C-ASCICGAC	-GCTGACCGAGG
M.Marinum		CANGENGARGEGE-TREGREETER		CCGGTBCBBC	SETCHRCRRG	CCCGGGTGGGCCGGTRCAAGGTCAACAAGGTCGGCTCGAGCCTGAACAC		-CGGCCAGCCCATCAC		C-86CTC68C	-uciumcumus -GCTGACCGAGG
M.fortuitum		GC-TRCSACCTC	GCCCGCGTGG	SCECTROBAL SCELTTROBAL	SET CARCARC	CORGERGECEC-TRESACTESTECECTESECECT RESECUENT CARGATER CARCARGET SECTION OF THE SE	BACCC	CGGCCRGCCGRTCRC	Į	G-TCGTCGAC-	-TCTGACCGRGG
M. intracellulare		GCGTAC6ACCTC	16CGCGTGTEGG	ICCCTACABE	SETCHREBAG SETCHREBAG	: consoundantecet = inconcersos=isocus   concensis   nemous   contensistes   con isocus   contensis   contensis		Cabil GABLICATION GGGGGGAGCCCA	! !	C-H831 CBHC C-86CTC6AC	-6CTGACCGAGG
M.tuberculosis		GC-TRCGRCCTG	BCCCGCGTCGL	TCGCTATARC	SETCHRCBRE	CARGONGARGCGC-TRCSACCTGGCCGCGTCGGTCGCTATARGGTCARCARGARGCTCGGGCTGCATGT-	CATET-	-CGGCGRGCCCATCRC-		G-TCGTCGAC	-GCTGACCGRAG
M.bovis	TCARGGREGAREC	GC-TRCGACCTG	GCCCGCGTCG	TCGCTATARE	<b>SET CHACKAG</b>	M.bovis TCARGGAGARGCGC-TACGACCTGGCCCGEGTCGCTATARGGTCARCAAGAAGTCGGGCTGCATGT-	CATGT-	-ceeceneceentere-	ļ	G-TCGTCGRC	-GCTGACCGARG
M.africanun	TCRREGREGARGE	GC-TACGACCTG	<b>GCCCGCGTCGL</b>	<b>TEGETHTHRE</b>	<b>SETCHRCRA</b>	TCANGGAGARGCGC-TACGACCTGGCCCGCGTCGGTCGCTATANGGTCARCARGARGCTCGGGCTGCATGT	CRTGI-	Ţ	Ī	G-TCGTCGRC	-GCTGACCGRAG
M.kansasti	_	GC-TACGACCTE	GCCCGTGTCGL	CCGATACARC	GECHACHAL	<b>M. kansasal</b> Tchhadharracac-thcarctagacatatagacarthararrangatarrangatarrangaractagacatarra		Ţ	Ţ	C-ACGREGARCH	-GCTGACCGBAG
M.cellatum		GC-TACGRCCTC	GCGCGGGTGGL	<b>SCCECTACABL</b>	GETCHREARE	CHREGRERECEC-TRCGRCCTCGCGCGGTGGGCCCTRCRAGGTCRRCRAGGTCGGCGCCTGRRCRC-		CECCTCCCCGATCAC-	Ī	-ACCRECERC	3-ACGRCCRCTCTGRCCGRRG
M.henophilum		CARGGRERACCC-TACGRCCTGG	GCCCGGGTTGL	<b>TCGTTACARC</b>	<b>SETCHACAR</b>	CCCGGGTTGG1CGTTACAAGGTCAACBAGAAGCTCGGGTTGCACGC	39583	<b>-CGGTGRGCCGRTCAC</b>	į	HECT CGRC	G-AGCTCGACGCTGACCGARG
M.nalmoense	TCARGGAGARGC	GC-TACGACCTC	GCCAGGGTTGL	SCCGTTACRAC	GTCARCARE	HRGCTCCGGCTG	993993	<i>I C</i> AAGGAGARGCGC-1ACGACCTGGCCAGGTTGCCGTTACAAGGTCAACAAGGTCCGGCTGCCGGCGGCGGCGGCGGCGGCGTCGGCGTTGCGTCGT	333	GCC TCGACCA	-C-GCCTCGACCACGCTGACCGARG
H. senopi	TCARGGGGGGGGGC	GC-TACGACCTE	GCCCGGGTGG	CCCCTACARE	<b>SETCHREBAE</b>	HARCTCGGGCTG		M.wanapi icaradanakacac-tacactogcccgggtagccactacargetaracarakatacagastaraccararatecocogac	336	-ACCREGACE-	CTGRCCGARG
M.chelonae	TCARGERGRAGE	GC-TACGACCTE	SCCCGCGTGGL	CCGGTACABL	GTGARCARE	M.chelonaa TCAA66AGAAGCGC-TACGACCTGGCCGGGTGGGCCGGTGAAGAGGTGAACAAGAAGCTGGGTCTTGGCG-	ı	GTGCCRACCEGGCTCTGGTG-ACTGCCACCACGCTCACCGAGG	TCTGGTG	-ACTECCACCA	CECTCACCERGE
M-abscessus		GC-TACGATCTE	GCCCCCGTGGL	TCGGTACARE	SCTERRICRAL	fcargerigrecec-trcerttgecccectegtcestrcarscteatcrageterrectgescterre	-909g	GCACCAATCCGGCTCAGGTGACCACCACCACCACCTCACCGAGG	TCREGITE	-ACCRECERCES	CCCTCACCGAGG
M.flavescence	TCARGGAGAAGC	GC-TACGACCTC	iecccecergel	TEGETACARE	<b>SETCHACRAE</b>	HARCET GGGCRTC	#ECC89	TCRRGGRGABGCGC-TRCGACCTGGCCCGCGTGGGTCGGTTAGGTCRAGAAGCTGGGCATCACCARGARCCCGGCCGGCCGGCCGGCCTGGCGCGTG	ACE	-ACCT CGRCCR	CACTGRCCGRRG
M.scrofulaceum ICARGARARCOC-TACERCCTGGCCCCCCTCTRCARGICARCARGARECTGGGTCTGCACCECCG-GCGRGCCGRTCACGTCGTCCRCGTCRCGTCGACGAGG	TCARGGAGARGC	GC-TACEACCT	GCCCCCCTCGE	<b>SCCGCTRCAR</b>	SGTCAACAAC	<b>HAGCTGGGTCTG</b>	CACCC		·TCB	cetcetcer	CECTGACCGAGG
M.gastri	<b>TCARGERERRGC</b>	GC-TACEACETE	<b>SECECECETES</b>	<b>ECCETACHA</b>	<b>3GTCHRCHR</b>	<b>HRECTGGGCCTG</b>	RECRC-	M.gastri itarggrirrgcgt-ircrictgcccgegicgccircragetrrarargriggeciggccigrrckcg-bicricgeica-	2	CCRCCRCGR	CERCERCGREGETGACTERRG
Consensus	TCARGGRGARGC	GC TACGACCTG	igceco Grego	icceethchal	<b>JETCHRCAR</b> (	Consensus TCARGGAGARGCGC 1ACGACCTGGCcC GTgGGcCGcTACARGGTCARGARGARGARGTCGGGcCTg acgc	acgc	cego agolgatoal	ar G	acctCgAC	gCTGACCGAaG

Figure 6a

CCBCGATGACCACTCGGGCGGTGTCGAGGTGCCGGTCGAGACCGACGACATA CCBCGATGACCGTCCGGCGGTGTCGAGGTGCCGGTCGAGACCGACGACAT CCACGATGACCGTCCGGCGGTCGAGGTCCGGTCGAGGTGCGGTGGAGCGACGACAT CCACGATGACCGTTCCGGCGGCGTCGAGGTGCCGGTGGAGACCGACGAT CCACGATGACCGTTCCGGCGCGTCGAGGTGCCGGTGGAAGACCGACGAGTCCCACGATGACCGACGACGAGTGCCGGTGGAAGACCGACGAGTCCACGATGACCGACGACGAGTCCGACGAGTCCGACGAGTCCGACGAGTCCGACGAGAACCGACGAGTCCCACGATGACCGACGACGACGAGTCCGACGAGTCCGACGACGAGTCCCACGATGACCGACGACGACGACGACGACGACGACGACGACGACGAC	ARGREGICGECRCEATCGRAINCIGGICGETIGCREARGGGCCRGRCCGCGRIGGCCTCGGGCGGGGGGGGGGGGGGGGGGGGGGGGG

Figure 6b



## Figure 7a

1	2	3	4	5	6
7	8	9	10	11	12
В	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48

## Figure 7b

1	2	3	4.	5	6
7	8	9	10	11	12
В	1.4	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48



## Figure 7c

1	2	3	4	5	6
7	8	9	10	11	12
В	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
12	4.1	15	16	17	18